



Wrap-up

"For over 17 years, ISS has been assisting clients transform their IT departments into agile, responsive organizations that successfully deliver high quality business-aligned solutions on time and on budget... meeting or exceeding customer expectations."





Architects, Architecture...SOA

Strategic SOA

Get To The Point...SOA

- Service Orientation
 - Leans More Toward Business Orientation
- Enterprise Architecture
 - Leans More Toward Technology
- Both Bridge IT and Business
- Service Orientation Examines Relationship Between Business & IT
- Enterprise Architecture is a Set of Best Practices (Disciplines) for Building Business That Leverage IT Resources
- SOA Is Enterprise Architecture Oriented Toward Services:
 - “Broad Set of Rules and Practices That Govern and Evolution of Organizations That Leverage Business Resources as Services.”

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Let's Get Started

Strategic SOA

SOA Strategy

- Some Strategic Limitations of SOA
 - Business People Are Unfamiliar With The Power of SOA...Its Still Emerging
 - SOA Is Complex and Technical...Most Champions Are IT-based
- Start Small...Grow Deterministically
 - (Step 1) Begin With Small But Significant Project
 - Solve Specific Problem (Limited)
 - Build Service Orientation Acceptance With Management and SOA Acceptance With IT
 - (Step 2) Quickly Implement Broader SOA Initiatives – Cross Organizational
 - Build Shared Services
 - Force Enterprise To Work Out Organizational Issues
 - (Step 3) Enterprise Initiative
- Think In Terms of Enterprise From Beginning
 - Avoid Localized SOA Initiatives That Go In Different Directions – Yarn Ball!
- Master Architecture Plan Is Key To SOA Strategy
 - Level of Detail Important
 - Too Much: Analysis Paralysis
 - Too Little: Plagues Efforts With Redundant Efforts / Incompatibilities
 - Iteratively Build...Incorporate Lessons Learned

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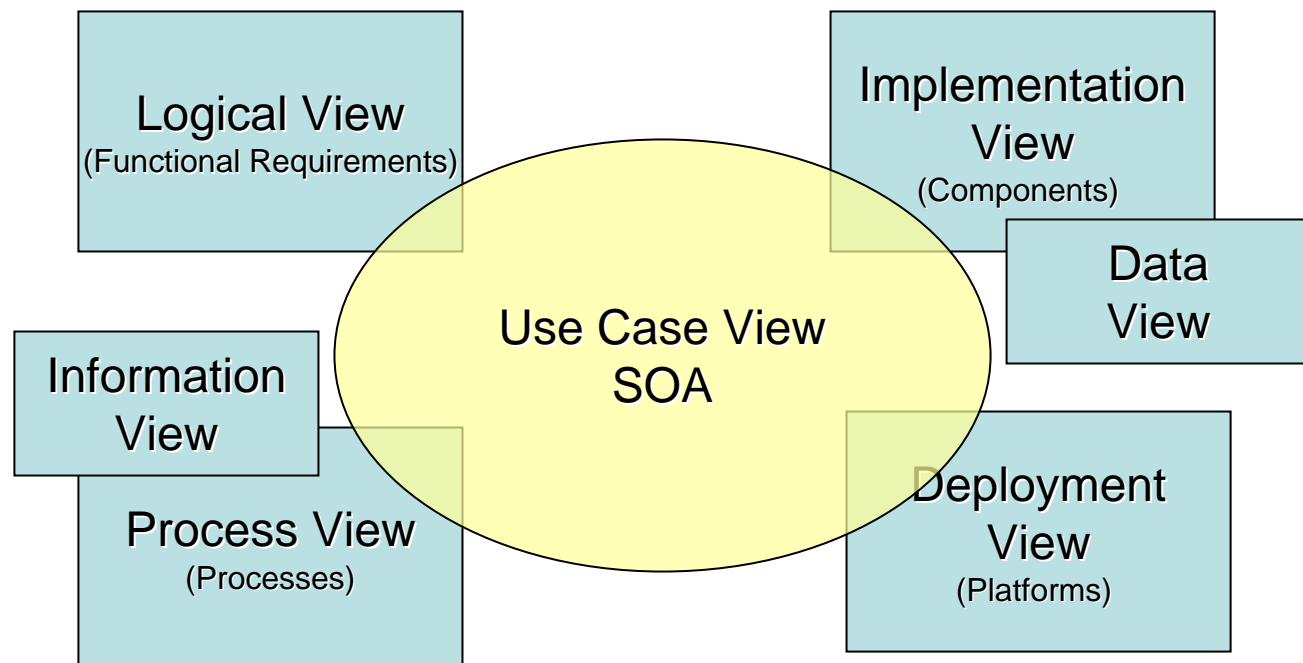




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Strategic SOA

View Model of SOA



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Two Notes:

- 1) Services Are The Crux of the Architecture
- 2) The Practice of SOA Centers on Services: How To Specify, How To Build, When To Use, How To Compose Into Process



Let's Get Started

Strategic SOA

Start Small = Pilot Project

- Pilot Projects Are Great For Safely Testing New Techniques & Technologies...SOA
- Pilots Are **NOT** Proof of Concepts
 - Both Are Trial Projects That Evaluate New Techniques & Technologies
 - Proof of Concepts Determines Worthiness of Concept for Future Efforts, But Doesn't Solve Business Problems
 - Pilot Determines Worthiness of Concept for Future Efforts and Actually Addresses A Business Problem
- Why Pilot SOA:
 - Build Acceptance For SOA
 - Work Through Challenging Aspects of Architecture and Planning Services
 - Technical Team Experience With SOA Intricacies
 - Fine-tune Methodologies and Techniques for Implementing SOA
 - Evaluation Technologies That Enable SOA
- Primary SOA Pilot Pitfall
 - Don't Forget The Architecture...You Are Piloting It!!!
 - May End Up With Old Architecture Warmed Up With Standard-based Interfaces

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Strategic SOA

SOA and Web Services

- SOA Pilot Pitfall
 - Pilot The SOA Architecture...not the Web Services.
- Isn't SOA and Web Services Synonymous?
 - NO!!!!
 - SOA is a Software Architecture. You Don't Have to Use Web Services to Accomplish SOA
 - Web Services are just ONE WAY of doing SOA
- SOA Pilots Address:
 - Architectural Planning, Modeling and Organization
- Web Services Pilots Address:
 - Implementing a Standards-based Interface.... I can give you a WS in 5 minutes!
- Why Am I Preaching?
 - Teams Often Abandon The Architecture Focus and Focus Building Services
 - Developing Architecture Best Practices is Hard Work
 - Becoming SOA-focused is a hard effort and will take TIME



Let's Get Started

Strategic SOA

SOA Pilot Essentials

- Architecture Plan
 - SOA is an Enterprise Architecture Mapping How Business Interacts with IT
 - Must Put Some Subset of the Enterprise Through Its Paces
- Specific Scope
 - Start With Existing or Desired Business Process and Decompose to Identify Areas of Redundancy....These Lend Themselves Well To Services.
 - Scope A Reasonable Set of Services for the Pilot
- Clear Acceptance Criteria
 - How Do You Know When You Are Finished? How Do You Know It Was Successful?
 - Recommended Criteria:
 - A Complete Architectural Design: Design Should Extend the Broad Plan You Started with Service Contracts and Other Working Elements of a Working SOA Implementation
 - Reusable Business Services: Target Level of Reusability for the Services You Build, including the Number of Services and Number of Consumers per Service
 - Governance Criteria: Governance Infrastructure Provides Identities, Policies, and Rules for Ongoing Management / Evolution of the SOA Implementation

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Let's Get Started

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Quick Discussion of Methodology

- Top-Down / Bottom-Up Planning
 - Top-down Planning
 - Assemble Long-term Architecture: View Model of SOA
 - Process Decomposition: Break Down Process, Identify Services, Detail Contracts for Services
 - Contracts Drive Development / Testing
 - Bottom-up Planning
 - Examine Current IT Resources To Be Exposed As Services (Techies Favorite)
 - Once Exposed, They Can Be Incorporated Into Business Process
 - SOA Approach Uses Both
- Incremental Approach
 - Top-down Planning: Recommend Building Services Too Complex
 - Bottom-up: Develop Services You Don't Need or Don't Solve Business Problems
 - First, Dive Into Process Decomposition and Services Definition Activities
 - Circle Back, Improve the Plan....Revisit The Processes and Services
- SOA in Its Vary Nature is Iterative!
 - Implementation in Constant State of Flux...Because Business is!

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Summary

Strategic SOA

What Does This All Mean?

- Service Orientation **will** impact Business as much as we saw in the 1990s... it will also take a Bit Longer
- It is **inevitable**
- Most companies are **on the road** to service orientation... although most of the effort is still in IT
- Are you skeptical?
- It's a Paradigm Shift
 - There Have Been Others...
 - The Personal Computer...
 - The Internet... even my mother does email and web
 - The Man on the Moon...
 - England winning the World Cup...

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Building Agility with Agility

Strategic SOA

Four Pillars of Service Oriented Development

- Pillar 1: Iterative Development
- Pillar 2: User Involvement
- Pillar 3: Contract-first Development
- Pillar 4: Refactoring

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Discuss

- Build Buy or Repurpose?

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Objectives – did we meet them?

- Introduce you to SOA thinking
- Help you understand the challenges as well as the benefits
- Gain a high level understanding of the technologies and approaches
- Make you think
 - About how SOA fits with Iowa and your organization
 - About how you can apply SOA thinking and models
- Look at how SOA fits with Governance
- Not a sales pitch – a balanced view of the world

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Feedback

- What was good about the day?
- What wasn't good?
- What could we do better?

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